

## CURRICULUM VITAE

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### Education

**24 June 1998**

Degree in Electronic Engineering (Course Bioengineering) at University of Pisa with 103/110.

**21/12/1998**

Achievement of professional qualification

**October 1998 - October 2001**

PhD in Bioengineering obtained at Politecnico of Milan on 5th February 2002, with PhD thesis "Microfabrication techniques for the realisation of organised engineered tissue", was carried out at Interdepartmental Research Center "E. Piaggio" in Pisa, with the collaboration of Institute of Clinical Physiology at Pisa, of institute of Neurophysiology at Pisa and of Microscale Tissue Engineering Laboratory of University of California San Diego, USA.

### Professional experiences

**from 22/07/1998 to 22/10/1998.**

Collaboration contract for three months at Center "E. Piaggio" to develop a bioreactor for growth of endothelial cells in hemodynamic simulated environment.

**from 22/12/1999 to 22/03/2000**

Collaboration contract for three months at Center "E. Piaggio" – University of Pisa for the development of conductive polymers sensors.

**from 20/10/2000 to 25/04/2001**

Collaboration contract for six months at Microscale Tissue Engineering Laboratory of UCSD- San Diego-CA, USA to develop new microfabrication techniques obtained by soft-lithography.

**from 12/11/2001 to 03/03/2002**

Collaboration contract for four months at Center "E. Piaggio" – University of Pisa to optimise a measure chamber for TIRF optical sensors

**from 02/04/2002 to 30/06/2002**

Collaboration contract for two months at Center "E. Piaggio" – University of Pisa to set-up a Soft-Lithography laboratory.

**from 01/07/2002 to 30/06/2003**

Post-Doc grant on “ Microfabrication of biomimetic actuators” on European Project “Bioloach” at Center “E. Piaggio” – University of Pisa

**from 01/07/2003 to 30/04/2006**

Post-Doc grant on FIRB project “Development of materials and technologies focused for controlled drug release systems for endovascular devices” at Institute of Composite and Biomedical Materials –CNR in Pisa

**from 09/11/2005 to 17/12/2005**

Collaboration contract for teaching Chemical Bioengineering at Bachelor degree of Biomedical Engineering for academic year 2005-2006.

**from 02/11/2005 to 01/02/2006**

Collaboration contract at Department of Chemical Engineering, Industrial Chemistry and Material Science of University of Pisa on “Synthesis and characterisation of monomers to realise elastomers used as solid propellents”.

**from 01/04/2006 to 30/04/2006**

Collaboration contract for four months at Center “E. Piaggio” on “Optimisation of a laminar flow bioreactor”.

**from 18/03/2006 to 03/04/2006**

Collaboration contract for two months on European Project UE CT. ASIA-LINK for “Training on the use of Biopac and transducers and Biomaterials” at University of Pisa

**from May 2006 to 28/12/2014**

Permanent Assistant Professor in Industrial Bioengineering (ING-IND/34) at University of Pisa.

**From April 2012 to present**

Visiting professor at IPL-Centro Para o desenvolvimento rapido e sustentado de produto –Instituto Politecnico de Leiria, Portugal

**from 29/12/2014 to present**

Permanent Associate Professor in Bioengineering (ING-INF/06) at University of Pisa.

**from 01/03/2015 to present**

Adjunct Associate professor in Biomedical Engineering and Medical Physics Discipline, School of Chemistry, Physics and Mechanical Engineering in the Science and Engineering Faculty at the Queensland University of Technology, Australia

### **Teaching Activity**

**From 2006 to 2008**

I taught the following classes:

- Laboratory for Biomedical Engineering (3CFU), (Bachelor Degree in Biomedical Engineering);
- New Technologies in Surgery, Minimally Invasive therapies (2 CFU), (Master Degree in Biomedical Engineering)

The topics covered in Bioengineering Laboratory ranged from: the preparation of solutions and buffer solutions; pH, permeability, wettability measurements; mechanical characterization of materials.

The teaching of minimally-invasive therapies was based on personal research topics. In particular, it was focused on development of two-dimensional and three-dimensional microfabrication techniques for applications in the biomedical area and use of CAD / CAM systems and of nanotechnology.

I taught as teaching assistant the following classes

- Chemical Bioengineering (6CFU), (Bachelor Degree in Biomedical Engineering). My lessons were focused on physiology of kidney and lung, on modeling of dialyzers and oxygenators, on physiology of pancreas, on development of insulin pumps, their control algorithms and related biosensors, and on development of assisted circulation systems and artificial heart.
- Biomechanics (6CFU),(Bachelor Degree in Biomedical Engineering). In this course, my lessons were focused on bone biomechanics.
- New technologies in surgery (6CFU), (Master Degree in Biomedical Engineering),. In this class my lessons were focused on design and modeling of orthopedic and dental implants and heart valves.
- Biomolecular and Tissue engineering (6CFU), (Master Degree in Biomedical Engineering). In this class my lessons were focused on 2D and 3D microfabrication systems, on methods for characterization and analysis of cells, tissues and surfaces, and on design and modeling of bioreactors.

#### **From 2009 to 2010**

I taught following classes:

- Laboratory for Biomedical Engineering (3CFU), (Bachelor Degree in Biomedical Engineering);
- New Technologies in Surgery, Minimally Invasive Therapies (2 CFU), (Master Degree in Biomedical Engineering)
- Chemical Bioengineering, (6CFU), (Bachelor Degree in Biomedical Engineering).

I taught as teaching assistant the following classes

- Biomechanics (6CFU), (Bachelor Degree in Biomedical Engineering);
- New technologies in surgery (6CFU), (Master Degree in Biomedical Engineering).

#### **From 2010 to 2011**

I taught following classes:

- Prosthesis (6CFU), (Bachelor Degree in Biomedical Engineering). In this class my lessons were focused on design and modeling of orthopedic, dental, ocular, vascular implants, of hearing aids and cochlear devices, and heart valves
- Micro and nano systems, (6CFU),( Master Degree in Biomedical Engineering). In this class my lessons were focused on 2D and 3D microfabrication systems and their modeling for a total of 2CFU.
- Laboratory for Biomedical Engineering (3CFU), (Bachelor Degree in Biomedical Engineering)

#### **From 2011 to 2012**

I taught following classes:

- Prosthesis (6CFU), (Bachelor Degree in Biomedical Engineering).
- Micro and nano systems, (9CFU),( Master Degree in Biomedical Engineering). In this class my lessons were focused on 2D and 3D microfabrication systems and their modeling for a total of 3CFU.

### **From 2012 to 2014**

I am teaching following classes:

- Prosthesis (6CFU), (Bachelor Degree in Biomedical Engineering).
- Chemical Bioengineering, (6CFU), (Bachelor Degree in Biomedical Engineering).
- Micro and nano systems, (9CFU),( Master Degree in Biomedical Engineering). In this class my lessons were focused on 2D and 3D microfabrication systems and their modeling, on nanotechnologies devices and FEM modeling for a total of 6CFU.

### **From 2014 to 2015**

I am teaching following classes:

- Prosthesis (6CFU), (Bachelor Degree in Biomedical Engineering).
- Chemical Bioengineering, (6CFU), (Bachelor Degree in Biomedical Engineering).

### **From 2015 to present**

I am teaching following classes:

- Prosthesis (6CFU), (Bachelor Degree in Biomedical Engineering).
- Chemical Bioengineering, (6CFU), (Bachelor Degree in Biomedical Engineering).
- Micro and Nanosystems (6 CFU) (Master Degree in Biomedical Engineering)

In European Project UE CT. ASIA-LINK "Development of Core Competencies in the Areas of Biomedical and Clinical Engineering in the Philippines and Indonesia". from March to April 2006, I taught an intensive class of 40 hours per week at De La Salle University in Manila and a similar class at the University of Indonesia in Jakarta.

In this class my lessons were focused on design and realization of artificial organs, on biomaterials and on bioengineering principles that underlie the interpretation of physiological processes that occur in major natural systems (kidney, lung, heart, pancreas). In particular, the following topics were analysed: dialyzers, oxygenators, artificial pancreas, design and realisation of orthopedic, vascular and valvular prostheses, on 2D and 3D microfabrication techniques. I have also performed laboratory class on the use of a device for collection and analysis of the main physiological signals such as ECG, EEG, EMG, Spirometry. The course was aimed at professors of these two universities that were interested to rise degree in Biomedical Engineering

I have been supervisor of several bachelor and master degree thesis in the field of bioengineering, particularly, in particular focused on tissue engineering, bioreactors, biomaterials, biosensors, actuators, development of new methods of micro and nano manufacturing and development of software for simulation of biochemical pathways of cellular metabolism.

I was supervisor of five PhD students in Chemical and Material Engineering, at present I'm supervisor of three Phd students in Information Engineering (section Bioengineering).

### **Scientific Activity**

My research interests are:

- 1) development of new micro- nano- fabrication techniques for applications to Biomedical Engineering and in particular to Tissue Engineering, biosensors and actuators;
- 2) study of principal cell activities on polymeric microfabricated structures;
- 3) development of bioreactors in order to mimic the physiological environment for cell or tissue culture;
- 4) mechanical, chemical and cell characterisation of new biomaterials for applications to biomedical area and Tissue Engineering;

- 5) design of new functionalisation methodologies of biomaterials to improve the cell adhesion, proliferation and differentiation;
  - 6) project and realisation of organic transistors that should be interfaced to textile substrates to monitor biological signals such as ECG, EMG, etc;
  - 7) development of in-silico cell models through the fusion of Automatic Controls principles and of cell biochemical reactions;
  - 8) acquisition and processing of electromiographic signal on rats in order to evaluate the nerve regeneration after a polymeric scaffold implant as novel neurosurgical techniques.
- These scientific activities are demonstrated by more than 100 papers on International journal with high IF (h-index=22) 11 chapters on book and 21 patents

I am reviewer for several international journals, such as Acta Biomaterialia, Biosensors & Bioelectronics, Biomaterials, Biomedical Microdevices, Biotechnology Progress, Journal of Controlled Release, Materials Science & Engineering C, Open Chemical Engineering Journal, Sensors and Actuators, Tissue Engineering, ACS Nano, Journal of Neural Engineering, IEEE EMBS, Polymer Composites, etc. I was invited speaker and chairman in several international scientific meetings.

I was member of Editorial Board of International Journal of Osteology and Biomaterials (<http://www.osteobiom.com/editorialboard.html>), of Open Nanoscience Journal (<http://www.benthamscience.com/open/tonanoj/EBM.htm>) and of Open Chemical Journal (<http://www.benthamscience.com/open/tocengj/EBM.htm>) of Bentham Sciences Publishers Ltd.

I am member of Editorial Board of Biomedical Science and Engineering (<http://technology.pagepress.org/index.php/bse/pages/view/board>), Recent patents in Engineering (<http://benthamscience.com/journals/recent-patents-on-engineering/editorial-board/>), International Journal of Bioprinting (<http://ijb.whioce.com/index.php/int-j-bioprinting/about/editorialTeam>), Journal of 3D printing in Medicine (<http://www.future-science-group.com/journal-of-3d-printing-in-medicine/>) and of AIMS Bioengineering (<http://www.aimspress.com/news/80.html>),

I am member of Directors board of International Society for Biofabrication, member of IEEE and of National Group of Bioengineering.

I was auditor of projects for the Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding, for the Estonian Science Foundation and for the Autonomous Province of Trento, University and Scientific Research Service. I was evaluator of Consolidator Grant 2013, ERC Program, European Commission

I am Scientific advisor for Dipromed Srl in San Mauro Torinese (To), Italy for following European Manunet Era Net Call and FP7 projects:

- Nanowell Manunet (2008);
- Biodress Manunet (2010);
- Nasla Capacities FP7 (2009);
- Nabla Converging Technology (2008)

I'm evaluator of innovation project in industrial area for Fondimpresa, Italy.

I'm reviewer of FAS projects for Italian Ministry of Education and University

### **Scientific grant**

I was involved in the following grants:

- 1) Fondazione Cassa Di Risparmio di Pisa 2002: Sviluppo di Bioreattori miniaturizzati per il test di farmaci su colture cellulari a regime dinamico in modelli di patologie nervose e vascolari
- 2) FIRB 2002 Development of technologies for implementation of electronic components and

- devices on textile substrates
- 3) PRIN2002: Sviluppo e realizzazione di un sistema a trasduttori micromeccanici per la determinazione di RNA messaggero in applicazioni biomedicali
  - 4) PRIN 2003: Nuove interfacce neuro-elettroniche: accoppiamento funzionale di reti di neuroni in-vitro a strutture polimeriche planari per lo sviluppo di un sistema di connessione bidirezionale per il monitoraggio ed il condizionamento dell'attività elettrofisiologica di tali sistemi neuronali
  - 5) European IST Project 2001-34181 BIOLOCH 2002-2005 BIO-mimetic structures for Locomotion in the Human body
  - 6) FP7-NMP-2008-SMALL-2: Intestinal, Liver and Endothelial Nanoparticle Toxicity Development and evaluation of a novel tool for high-throughput data generation
  - 7) FP7, INNOVATION -201207: Reliver: design of biomimetic bioartificial liver
  - 8) PRIN 2010: Ingegnerizzazione di Modelli d'organo di interesse fisiologico e patologico per l'Indagine di Disturbi legati all'invecchiamento. (MIND)

I'm involved in a Research Project of University of Pisa PRA\_2016\_57 "Conveying cell-specific drugs and molecules in the retina: Targeted therapy approaches"

I was scientific coordinator of

- 1) MANUNET 2011-1136: MES-STAR- Morphologically Engineered scaffold for soft tissue application and regeneration
- 2) POR CRO FSE 2007-2013 ASSE IV- Capitale Umano : INNOMED:Dispositivi biomedicali innovativi integranti nanotecnologie e materiali bioattivi

I'm coordinator of a MISTI Global Seed Funds project "Design And Realization of a 3-D Multi-scale In Vitro Model Of Breast Tumor Microenvironment" from January 2016 to July 2017.

### **Institutional Positions**

#### **From 2006 to 2012**

Faculty member, University of Pisa - Engineering Faculty - Italy

#### **From 2006 to present**

Active member of defence for Biomedical Engineering of Bachelor and Master degree thesis

#### **From 06/2006 to present**

Member of the board of PhD in Chemical and Material Engineering, "Leonardo Da Vinci" PhD School of University of Pisa

#### **From 10/2009 to present**

Member of the board of PhD in Automaton, Robotics and Bioengineering, "Leonardo Da Vinci" PhD School of University of Pisa

#### **From 05/2009 to 18/09/2012**

Elected Member of "Comitato di Presidenza" at faculty of Engineering of University of Pisa

#### **From 11/2010 to 18/09/2012**

Elected Member of "Giunta di Dipartimento" at Department of Chemical Engineering, Industrial Chemistry and Materials Science of University of Pisa

**From 01/11/2012 to 31/10/2015**

2012 – 2015 Elected Member of Security Committee; Assistant Coordinator, University of Pisa - Italy

**From 01/11/2015 to 30/10/2016**

2015 – 2018 Elected Member of Security Committee; Assistant Coordinator, University of Pisa - Italy

**From 11/2013 to 10/2015**

President of Didactics Commission of Council of Biomedical Engineering degree

**From 11/2015 to present**

VicePresident of Council of Biomedical Engineering and Bionics Engineering degree

**From 01/2014 to present**

Member of the Doctoral board of Ingegneria dell'Informazione, University of Pisa, Italy

**From 11/2014 to present**

Elected member of Commission for the evaluation of the Research for Industrial and Information Engineering

**From 11/2016 to present**

Managing security for University of Pisa appointed by the Chancellor

**Awards**

2001: 1<sup>st</sup> price in the "Research Capital 2001" for the "development of a system of microfabricated polymer microstructures for applications in the field of Biomedical Engineering"

2001: 3<sup>rd</sup> price in the "Research Capital 2001" for the "Design and implementation of a bioreactor and isobaric laminar flow for applications in the field of tissue engineering and pharmacology"

2002 : EUROPRACTICE VC Funding Forum funded by the European Community for the development of a multicompartiment bioreactor (MCB)

Award "Augusto Bonola" 2007 by the Italian Society of Surgery of the Hand for the contribution in the advancement of hand surgery

Prize 2011 "Young Researcher" of University of Pisa

**Major Collaborations**

Prof. Thomas Boland, Ink-jet system, University of Texas at El Paso (USA)

Prof. Paulo Bartolo, Microfabrication platforms, University of Manchester (UK) and Politecnico of Leiria (Portugal)

Prof. Lorenzo Moroni, Electrospinning system, University of Twente (The Netherland)

Prof. Joachim Kohn, Development of biomaterials, Rutgers University (USA)

Prof. Paolo Madeddu, Angiogenesis process, Bristol University (UK)

Prof. Iulian Antoniac, Bioceramics, University Politehnica of Bucharest (Romania)

Prof. John Cooke, Cardiovascular medicine, Stanford University (USA)

Dr. Ngan Huang, Cardiac muscle cells regeneration, Stanford University (USA)  
Prof. Helen Blau, Stem cell biology, Stanford University (USA)  
Prof. Jonathon Aylott, Design and Realisation of nanoparticles for sensing and controlled release, University of Nottingham, (UK)  
Prof. Dietrmar Huttmacher, Biofabbrication, Queensland University of Technology, Brisbane, Australia e Technische Universitat Munchen

### Referred papers

- 1) Ahluwalia A, Basta G, Chiellini F, Ricci D, Vozzi G, *Endothelial Cell Adhesion on Bioerodable Polymers*, J. Materials Science: Materials in Medicine, 2001,12(7),613-619;
- 2) Vozzi G, Flaim CJ, Bianchi F, Ahluwalia A and Bhatia SN, *Microfabricated PLGA Scaffolds: A Comparative Study for Application to Tissue Engineering*, Materials Science & Engineering C, 2002, 20(1-2):43-47;
- 3) Vozzi G, Previti A, De Rossi D, Ahluwalia A, *Microsyringe-Based Deposition of Two-Dimensional and Three-Dimensional Polymer Scaffolds with a Well-Defined Geometry for Application to Tissue Engineering*, Tissue Eng. 2002 Dec;8(6):1089-1098;
- 4) Vozzi G, Flaim C, Ahluwalia A, Bhatia S, *Fabrication of PLGA scaffolds using soft lithography and microsyringe deposition*, Biomaterials. 2003 Jun;24(14):2533-2540;
- 5) Santarelli MF, Sani L, Alhuwalia A, Vozzi G, Landini L, De Rossi D, *A new Method For Quantitative Cellular Imaging on 3-D Scaffolds Using Fluorescence Microscopy*, IEEE Transactions on Nanobioscience, June 2003,2(2),110-117;
- 6) Bianchi F, Vozzi G, Pescia C, Domenici C, Alhuwalia A, *A comparative study of chemical derivatisation methods for spatially differentiated cell adhesion on 2-dimensional microfabricated polymeric matrices*, J. Biomater. Sci. Polymer Edn, 2003,14(10), pp. 1077-1096;
- 7) Ciardelli G, Chiono V, Cristallini C, Barbani N, Ahluwalia A, Vozzi G, Previti A, Tantussi G, Giusti P. *Innovative tissue engineering structures through advanced manufacturing technologies* J Mater Sci Mater Med. 2004 Apr;15(4):305-310.
- 8) Vozzi G, Previti A, Ciaravella G, Ahluwalia A., *Microfabricated fractal branching networks*, J Biomed Mater Res A. 2004 Nov 1;71(2):326-333.
- 9) Carlucci F, Dini F, Vozzi G, Vozzi F, Chiono V, Salvatori C, Arispici M, Domenici C, Ciardelli G, Giusti P, *L'effetto tunnel mediante tubi bioerodibili nelle nerve regeneration*. Annali della Facoltà di Medicina Veterinaria di Pisa, 2005, vol. LVIII, p. 227-240
- 10) Ciardelli G, Chiono V, Vozzi G, Pracella M, Ahluwalia A, Barbani N, Cristallini C, Giusti P, *Blends of poly-( $\epsilon$ -caprolactone) and polysaccharides in tissue engineering applications*, Biomacromolecules 2005, 10.1021/bm0500805, pp. 1-16.



- 11) Bonfiglio A, De Rossi D, Kirstein T, Locher IR, Mameli F, Paradiso R, Vozzi G, *Organic field effect transistors for textile applications*. IEEE Trans Inf Technol Biomed. 2005 Sep;9(3):319-24. Review.
- 12) Vozzi G, Carpi F and Mazzoldi A, *Realization of conducting polymer actuators using a controlled volume microsyringe system*, 2006 Smart Mater. Struct. 15:279- 287, 2006
- 13) Ciardelli G, Rechichi A, Sartori S, D'Acunto M, Caporale A, Peggion E, Vozzi G, Giusti P, *Bioactive Polyurethanes in Clinical Applications*, Polymers for Advanced Technologies 2006, 17 (9-10), 786-789
- 14) Bianchi F, Vassalle C, Simonetti M, Vozzi G, Domenici C, Ahluwalia A. *Endothelial cell function on 2D and 3D micro-fabricated polymer scaffolds: applications in cardiovascular tissue engineering*. J Biomater Sci Polym Ed. 2006;17(1-2):37-51.
- 15) Mariani M, Rosatini F, Vozzi G, Previti A, Ahluwalia A. *Characterization of tissue-engineered scaffolds microfabricated with PAM*. Tissue Eng. 2006 Mar;12(3):547-58.
- 16) Vozzi G, Ahluwalia A, *Microfabrication for tissue engineering: rethinking the cells-on-a scaffold approach*, J. Mater. Chem., 2007, 17, 1248 - 1254,
- 17) Bianchi F, Rosi M, Vozzi G, Emanuelli C, Madeddu P, Ahluwalia A. *Microfabrication of fractal polymeric structures for capillary morphogenesis: Applications in therapeutic angiogenesis and in the engineering of vascularized tissue*. J Biomed Mater Res B Appl Biomater. 2007 May;81B(2):462-8.
- 18) Resta V, Novelli E, Vozzi G, Scarpa C, Caleo M, Ahluwalia A, Solini A, Santini E, Parisi V, Di Virgilio F, Galli-Resta L. *Acute retinal ganglion cell injury caused by intraocular pressure spikes is mediated by endogenous extracellular ATP.*, Eur J Neurosci. 2007 May;25(9):2741-54.
- 19) Poggi DS, Massarella M; Cerulli G, Caraffa A, Burchielli S, Modenato M, Cantile C, Vozzi G, De Maria C, Lisanti M, Bonicoli E, Cantini G, *La rigenerazione nervosa negli innesti a polarità invertita: dati a confronto tra applicazione sull'uomo e analisi sperimentale su modello animale*, Rivista di Chirurgia della mano, vol. 44(3), 2007, pp.1-15
- 20) Rechichi A, Cristallini C, Vitale U, Ciardelli G, Barbani N, Vozzi G, Giusti P. *New biomedical devices with selective peptide recognition properties. Part I: Characterization and cytotoxicity of molecularly imprinted polymers*. J Cell Mol Med. 2007 Nov-Dec;11(6):1367-76.
- 21) Sartori S, Rechichi A, Vozzi G, D'Acunto M, Heine E, Giusti P, Ciardelli G, *Surface modification of a synthetic polyurethane by plasma glow discharge: preparation and characterisation of bioactive monolayers*, Reactive & Functional Polymers 2008, 68(3), 809-821
- 22) Chiono V, Ciardelli G, Vozzi G, Cortez J, Barbani N, Gentile P, Giusti P. *Enzymatically-modified melt-extruded guides for peripheral nerve repair*, Eng. Life Sci. 2008, 8(3), 226–237

- 23) Cotroneo A, Vozzi G, Gerovasi L, De Rossi D, *A New Bio-Inspired Robot Based on Senseless Motion: Theoretical study and Preliminary Technological Results*, Multidiscipline Modeling in Materials and Structures, Volume 4, Number 1, 2008 , pp. 47-58(12)
- 24) Vozzi G, Rechichi A, Dini F, Salvadori C, Vozzi F, Burchielli S, Carlucci F, Arispici M, Ciardelli G, Giusti P, Ahluwalia A. *PAM-microfabricated polyurethane scaffolds: in vivo and in vitro preliminary studies*. Macromol Biosci. 2008 Jan 9;8(1):60-8.
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- 27) Mattioli-Belmonte M, Vozzi G, Kyriakidou K, Pulieri E, Lucarini G, Vinci B, Pugnali A, Biagini G, Ahluwalia A. *Rapid-prototyped and salt-leached PLGA scaffolds condition cell morpho-functional behaviour*. J Biomed Mater Res A. 2008 May;85A(2):466-76
- 28) Kullenberg J, Rosatini F, Vozzi G, Bianchi F, Ahluwalia A, Domenici C. *Optimization of PAM Scaffolds for Neural Tissue Engineering: Preliminary Study on an SH-SY5Y Cell Line*. Tissue Eng Part A. 2008 Jun;14(6):1017-23.
- 29) Chiono V, Ciardelli G, Vozzi G, Sotgiu MG, Vinci B, Domenici C, Giusti P. *Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(epsilon-caprolactone) blends for tissue engineering applications in the form of hollow fibers*. J Biomed Mater Res A. 2008 Jun 15;85A(4):938-53
- 30) Pulieri E, Chiono V, Ciardelli G, Vozzi G, Ahluwalia A, Domenici C, Vozzi F, Giusti P. *Chitosan/gelatin blends for biomedical applications*. J Biomed Mater Res A. 2008 Aug;86A(2):311-22.
- 31) Rechichi A, Ciardelli G, D'Acunto M, Vozzi G, Giusti P. *Degradable block polyurethanes from nontoxic building blocks as scaffold materials to support cell growth and proliferation*. J Biomed Mater Res A. 2008 Mar 15;84A(4):847-55.
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- 33) Guerrini P, Vozzi G, Ahluwalia A, Palla M, Rizzo S. *A patented drop-free trocar for ophthalmic applications: design and realization [from mind to market]*, Industrial Electronics Magazine, IEEE, Volume 2, Issue 2, June 2008 Page(s):4 – 8

- 34) Mazzoldi A, Tesconi M, Tognetti A, Rocchia W, Vozzi G, Pioggia G, Ahluwalia A, De Rossi D, *Electroactive Carbon Nanotube Actuators: Soft-Lithographic Fabrication and Electrochemical Modelling*, Materials Science and Engineering: C, 28(7) p.1057-1064, Aug 2008
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- 38) Cutrone A, De Maria C, Vinci B, Vozzi F, Ahluwalia A, Vozzi G. *A new library of HEMET model: Insulin effects on hepatic metabolism*. Comput Methods Programs Biomed. 2009 May;94(2):181-9. Epub 2009 Jan 22.
- 39) Rechichi A, Sartori S, Caporale A, Ciardelli G, Vozzi G, Mazzucco L, Peggion E, Giusti P., *Development of a RGDS-peptide modified polyurethane for tissue regeneration.*, Adv Exp Med Biol. 2009;611:249-50.
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- 41) Chiono V, Vozzi G, D'Acunto M, Brinzi S, Domenici C, Vozzi F, Ahluwalia A, Barbani N, Giusti P, Ciardelli G, *Characterisation of blends between poly( $\epsilon$ -caprolactone) and polysaccharides for tissue engineering applications*, Materials Science and Engineering: C, Volume 29, Issue 7, 31 August 2009, Pages 2174-2187
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